

**REMARKS**

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The Non-Final Office Action dated June 20, 2003 has been received and its contents carefully reviewed.

Claims 1-29 are pending in the current application.

In the Office Action, claims 1-16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent 6,255,130 to Kim (hereinafter “Kim ‘130”) in view of U.S. Patent 6,028,442 to Lee (hereinafter “Lee ‘442”) further in view of U.S. Patent 5,530,568 to Yamamoto et al. (hereinafter “Yamamoto ‘568”) further in view of U.S. Patent 5,657,139 to Hayashi (hereinafter “Hayashi ‘139”) further in view of U.S. Patent 5,157,476 to Yoshida (hereinafter “Yoshida ‘476”).

Claims 17-26 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent 6,524,876 to Baek et al (hereinafter “Baek ‘876”) in view of Lee ‘442 further in view of Yamamoto ‘568 further in view of Hayashi ‘139 further in view of Yoshida ‘476.

Claims 27-29 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent 6,335,211 to Lee et al (hereinafter “Lee ‘211”) in view of Lee ‘442 further in view of Yamamoto ‘568 further in view of Hayashi ‘139 further in view of Yoshida ‘476.

The rejections of claims 1-29 are respectfully traversed and reconsideration is requested. Independent claims 1 and 8 are allowable over the cited references in that each of these claims recites a combination of elements including, for example, “a data on/off pad between adjacent data pads in substantially the same pattern as the data pad” and “a gate on/off pad between adjacent gate pads in substantially the same pattern as the gate pad for testing a gate signal applied to the pixel region”. None of the cited references including Kim ‘130, Lee ‘442,

Yamamoto '568, Hayashi '139, Yoshida '476, Baek '876, and Lee '211, singly or in combination, teaches or suggests at least these features of the claimed invention. The Examiner acknowledges that Kim '130 does not disclose or suggest this feature, but alleges that Lee '442, Yamamoto '568, Hayashi '139, and Yoshida '476 do (Office Action, 6/20/2003, page 2, paragraph 3); however, Applicants respectfully disagree. In the cited references, the pattern of the data on/off pads and gate on/off pads is different than the data and gate pads, respectively (see Lee '442, Figures 1 and 4-6; Yamamoto '568, Figure 7; Hayashi '139, Figures 3 and 7; Lee '211, Figures 1 and 7A; Yoshida '568, Figures 1-5; and Baek '876, Figures 1, 7A, and 8A).

Because the cited references do not disclose, teach, or suggest at least this feature of independent claims 1 and 8, claims 1 and 8 are allowable. Claims 2-6 and 9-16 are allowable at least by virtue of their dependence on claims 1 and 8, respectively.

Independent claim 17 is allowable over the cited references in that this claim recites a combination of elements including, for example, "at least one of the testing data on/off pads and the testing gate on/off pads has substantially the same pattern as the data pads and the gate pads". None of the cited references including Baek '876, Lee '442, Yamamoto '568, Hayashi '139, and Yoshida '476, singly or in combination, teaches or suggests at least these features of the claimed invention. The Examiner acknowledges that Baek '876 does not disclose or suggest this feature, but alleges that Lee '442, Yamamoto '568, Hayashi '139, and Yoshida '476 do (Office Action, 6/20/2003, page 3, paragraph 3); however, Applicants respectfully disagree. The cited references differ from the present application in that they do not disclose or suggest, for example "a data on/off pad between adjacent data pads in substantially the same pattern as the data pad". In the cited references, the pattern of the data on/off pads and gate on/off pads is different than that of the data and gate pads (see Lee '442, Figures 1 and 4-6; Yamamoto '568, Figure 7;

Hayashi '139, Figures 3 and 7; Yoshida '568, Figures 1-5; and Baek '876, Figures 1, 7A, and 8A).

Because the cited references do not disclose, teach, or suggest at least this feature of independent claim 17, claim 17 is allowable. Claims 18-26 are allowable at least by virtue of their dependence on claim 17.

Independent claim 27 is allowable over the cited references in that this claim recites a combination of elements including, for example, "forming gate on/off pads and data on/off pads having substantially the same pattern as the gate pads and provided between gate pads". None of the cited references including Lee '211, Lee '442, Yamamoto '568, Hayashi '139, and Yoshida '476, singly or in combination, teaches or suggests at least these features of the claimed invention. The cited references differ from the present application in that they do not disclose or suggest, for example, "gate on/off pads...having substantially the same pattern as the gate pads". In the cited references, the pattern of the data on/off pads and gate on/off pads is different than that of the data and gate pads (see Lee '442, Figures 1 and 4-6; Yamamoto '568, Figure 7; Hayashi '139, Figures 3 and 7; Lee '211, Figures 1 and 7A; and Yoshida '568, Figures 1-5).

Because the cited references do not disclose, teach, or suggest at least this feature of independent claim 27, claim 27 is allowable. Claims 28 and 29 are allowable at least by virtue of their dependence on claim 27.

In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to withdraw the outstanding rejection of the claims and to pass this application to issue.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps

necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911.

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Respectfully submitted,

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